

WETLAND BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.2



Wetland ID: W-CD12	Crossing Start Date: 10/23/2023	Crossing Completion Date: 10/28/2023
Milepost: 216.7	Pre-Con Assessment Date: 10/16/2023	Post-Con Assessment Date: 10/30/2023
Station: 11448+68	Cowardin Classification: PEM (PEM, PFO, PSS, POW)	Wetland Impact Area (sq ft.): 906.05
County: Giles		

Item #	Resource Crossing Conditions	N/A	YES	NO
1.	Were equipment mats or other suitable methods utilized under heavy equipment to minimize soil compaction and disturbance in wetlands?	X		
2.	Was the existing vegetation removed prior to initiating land disturbance within the resource?		X	
3.	Was the top 1-foot (12-inches) of wetland soil segregated and stockpiled separate from trench spoils?		X	
4.	Was excess material not needed for backfill removed and disposed of in an upland area?		X	
5.	Was the top 12-inches of backfill made with clean native wetland topsoil?		X	
6.	Were standard decompaction practices (disking, plowing, cultivating, tilling, or incorporation of organic matter into the topsoil horizon) implemented prior to applying seed?		X	
7.	Was wetland topsoil replaced and temporarily seeded?		X	
8.	Was permanent seed applied to unsaturated wetlands?	X		
9.	Was equipment/timber matting removed from the wetland area properly by vertically lifting, and not pulling through the impact area.	X		
10.	Were impervious trench breakers/plugs properly installed within 25-feet of the resource to prevent subsurface erosion to or from the resource area?		X	
11.	Was the pre-construction survey data provided and utilized during restoration in attempt to maintain the original surface hydrology, and were contours re-established to pre-construction conditions to maintain overland flow patterns?		X	
12.	Have civil surveys been scheduled to verify as-built conditions meet pre-construction conditions in accordance with the project Mitigation Framework and federal/state permit requirements?		X	
13.	Was the time of disturbance minimized by conducting resource work continuously to completion?		X	
14.	Does the post-construction square footage of wetland area appear to be restored to meet or exceed the pre-construction area square footage?		X	
15.	Are bareroot saplings required and/or scheduled to be planted for the dormant season (10/1 – 4/30) in PFO classified wetlands?	X		
16.	Did any unauthorized discharges to unpermitted resources occur during the crossing? If so, explain the corrective actions implemented in the Comments section and include additional photos.			X

Item #	Biological Conditions	Pre-Con	Post-Con
17.	Wetland Saturation: <i>Are surface waters, the water table, and/or overall soil saturation present? (Select Yes or No)</i>	Yes	Yes
18.	Resource Alterations: Are the wetland soil conditions visibly disturbed? Examples: <i>Livestock presence, haul roads, farm traffic, drain tiles, recent mowing/clear cutting, recent excavating/disking of soils, etc.</i> Rating: <i>1-Negligible (undisturbed/natural resource), 2-Minor (20-40% of resource disturbed by alterations), 3-Moderate (40-80% of resource disturbed), 4-Poor (>80% of resource disturbed)</i>	2 - Minor	2 - Minor
19.	Is vegetation present within the permitted impact area prior to disturbance? (Pre-Con) Are areas properly seeded and stabilized after restoration? (Post-Con) Rating: <i>1-Optimal (60-100% heavy vegetative cover), 2-Sub-optimal (30-60% mixed vegetative coverage), 3-Marginal (<30% vegetative coverage), 4-Poor (Mowed/maintained area or farmland, impervious area, sparsely vegetative coverage, etc.)</i>	3 - Marginal	1 - Optimal

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Comments/Remarks

10/16/2023- Pre-construction meeting held, and pre-con auditor assessment completed. Will not be started until S-0012 and S-0013 are completed. Bell-hole between OO13 and OO14 will be left open in between tie ins.

-A. Breeding

10/23/2023- Topsoiling of buffer areas began. -A. Breeding

10/24/2023- Topsoiling continues. Wetland soils segregated and seeded, covered with visqueen. Trenching begins. First section of pipe installed and welding begins. -A. Breeding

10/25/2023- Trenching complete. Some sloughing of the trench wall occurred. Excess material was removed from trench and there were no impacts to biological conditions. Installed first section of pipe and first weld complete. Installed second section and began second weld. -A. Burgess

10/26/2023- Welding continues and backfill begins. -C. Stanley

10/27/2023- Padding and backfill complete. Final contouring begins. Stream substrate restored. -A. Breeding

10/28/2023- Final contouring complete. Restoration complete. Flow restored. -A. Burgess

Items #1 & #9: Due to size of wetland area and proximity to workspace, equipment mats were not needed for excavator to reach out from the upland area to remove the top 12" of wetland topsoil for segregation & stockpiling. Once topsoil was removed, subsoil was excavated for the trench. During restoration, mats were not needed for the equipment to reach with topsoil for final restoration & stabilization. Contractor avoided using heavy equipment within the resource area.

Item #8: The wetland area was saturated, therefore permanent seed was not required. Temporary seed-mix and straw were applied as an additional measure, and the existing seed bank within the restored topsoil is expected to re-establish the permanent vegetation.

In accordance with the Mountain Valley Pipeline Consent Decree, dated October 11, 2019, this independent report was completed to document the on-site monitoring of instream invertebrate and fisheries resources during all construction activity related to waterbody and wetland crossings, and document instream conditions and any impacts to the resources.

<p><i>This report was written by</i></p>	<p align="center">Allie Breeding <i>Print Name</i></p>	<p align="center"> <i>Signature</i></p>	<p align="center">10/30/2023 <i>Date</i></p>
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Required Photos



Photo Description: View of permitted resource impact area during pre-construction assessment.



Photo Description: At edge of LOD, view of unpermitted resource area conditions during pre-construction assessment.



Photo Description: View of permitted resource impact area during post-construction assessment.



Photo Description: At edge of LOD, view of unpermitted resource area conditions during post-construction assessment.

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Optional Additional Photos



Photo Description: Wetland soils properly segregated.



Photo Description: Wetland stabilized.



Photo Description: Trench breakers installed at stream/wetland crossing. Stream S-0014 is directly adjacent to wetland W-CD12.



Photo Description: Dewatering structure located off ROW with land owner permission.